Savekey

SAVEKEY INTERNATIONAL GROUP

- Http://www.Save-key.net
- Http://www.Save-key.com
- Http://www.Save-key.co.uk

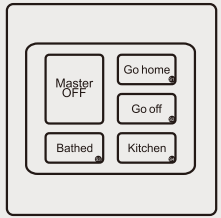
- Please read the manual seriously before using the product.
- Please preserve properly for future reference.

PRODUCT

TN–SW

USER MANUAL

Intelligent Touch Panel Switch with Communication Function



Savekey

Savekey

Dear User:
Welcome to join the user group of SAVEKEY!
We sincerely hope that this new model can bring you joyful experiences.

CONTENT

IMPORTANT NOTES	01
PACKAGE COMPONENTS	02 / 03
BRIEF INTRODUCTION	04
PRODUCT WIRING	05 / 06
Light control circuit diagram	
Dimmer circuit diagram	
Curtain control circuit diagram	
Networking diagram	
PRODUCT INSTALLATION	07 / 09
PRODUCT ID SETTING	10
PRODUCT TYPE SETTING	11 / 18
PRODUCT FUNCTION & OPERATION	19 / 20
Light control	
Dimmer	
Curtain control	
REMOTE CONTROL FUNCTION & OPERATION	21 /22
Miniset-Remote	
Handy-Remote	
PROGRAMME SETTING	23/36
PRODUCT SPECIFICATION	37
PRODUCT DESCRIPTION	38 / 45
TROUBLE SHOOTING GUID	46 / 47

IMPORTANT NOTES

- **READ BEFORE INSTALLATION**

  Please read carefully this manual before installation to fully understand the principle and the function of this product.

- **PRODUCT SAFETY**

  SAVEKEY TN-SW Series products have been designed and produced in accordance with CE and RoHS requirement, with various performance indexes complying with BS4662 requirements. Incorrect wiring may cause burning-out or malfunctions. Please refer to the wiring diagram for specific details. Please check whether the wiring diagrams contravene local access wiring rules.

- **TOUCH PANEL TN-SW SERIES**

  Touch Panel can be installed in BS4662 switch wall box. It is recommended that its internal installation dimension of wall box is 65mm*65mm*50mm. Its external dimensions of the touch panel is 86 mm*86mm*46mm. The wiring terminal can be either screw type or non-screw type. The switch can be used safely only when connected to live wire, neutral line and earthing wire.

- **SK-FACILITY-Remote Infrared remote controller**

  With infrared transmitter in this remote controller, its operating range is ＞15m in free space, its remote control angle ≤ 90° , and the infrared ray can be reflected indoors.

- **PROPER POSITIONS FOR INSTALLATION**

  1 The positions shall be convenient for easy installation and operation.
  2 The positions shall be away from water, moisture, direct sunlight and dust.

- **TROUBLE SHOOTING GUIDE**

  If the product can not work properly after the installation, please refer to TROUBLE SHOOTING GUIDE in this manual.

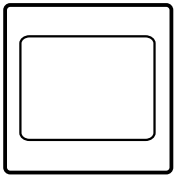
- Please use dry, soft cloth material for cleaning. Do not clean the switch with anti-solvents such as alcohol, acetone and ether etc.

- **WARRANTY**

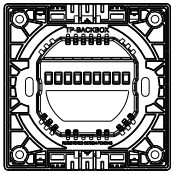
  SAVEKEY products come with two years, equipment-only warranty.

PACKAGE COMPONENTS

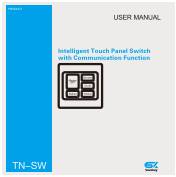
Reference Accessories



Touch Panel cover plate



Switchgear driving box



User Manual

SK-FACILITY-Remote

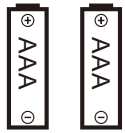
AG10/389A Button CellX2

Screw×2

TN-SW Intelligent Touch Panel Switch with Communication Function

PACKAGE COMPONENTS

Reference Accessories



(Scene remote controller, require AAA battery X 2)

INTRODUCTION

TN-SW series touch panel switches，accompanied with SK-Miniset-Remote controller, have the function of light control correspondence, power-up scene and scene control. Remote scene can be set by remote controller, simple design and easy operation. LED back light touch panel design, the key can be seen even in dark with dim back light.

In case of power cut, EEPROM will keep the user setting still on the switch.

The product can work as standard wall switch, to be installed on BS4662 square wall box.

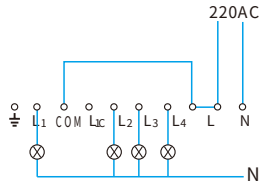
Terms Description

- Light Control Key——the key to control device directly
- Scene Key——the key to control scene, not directly connected to device. Scene keys include Master Key and Scene Key on touch panel.
- Scene——is a lighting situation in an area.
- Power-up Scene——work situation when the panel is electrified from power cut.
- Master On——touch on the Master Key (back light turn from dark to bright), activate a scene of Master On.
- Master Off——Touch off the Master Key (back light turn from bright to dark), activate a scene of Master Off.
- Touch Key Scene——the scene to be activated by touching on Scene Key on the touch panel.
- Remote Control Scene——the scene to be activated by remote controller.
- Light Control key Relation Setting——control a specific device by different keys in a BUS Group.

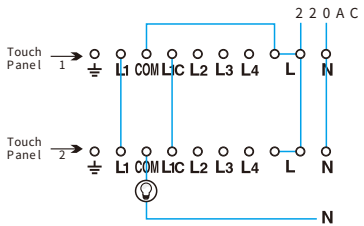
TN-SW Intelligent Touch Panel Switch with Communication Function

PRODUCT WIRING

Light control circuit diagram

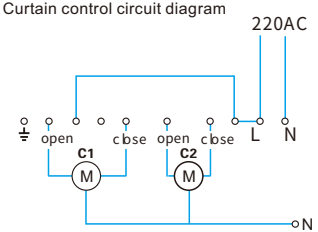


2 way lighting circuit diagram

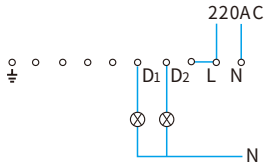


Notice: Only the L1 can be used to connect in a 2 way lighting circuit.

Curtain control circuit diagram

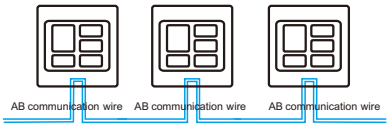


Incandescent dimmer circuit diagram



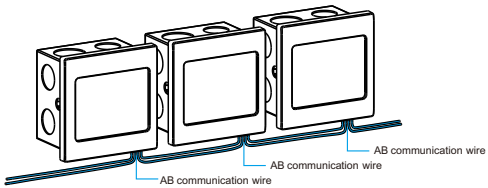
PRODUCT WIRING

Networking diagram



Notice: 1, AB wire must be STP (SHIELDED TWISTED PAIR) and connected as a BUS.
2, A wire is white, B wire is black, A must NOT be connected with B.

Networking 3D diagram

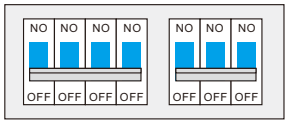


Stp Standard: Rvvp 0.75x2

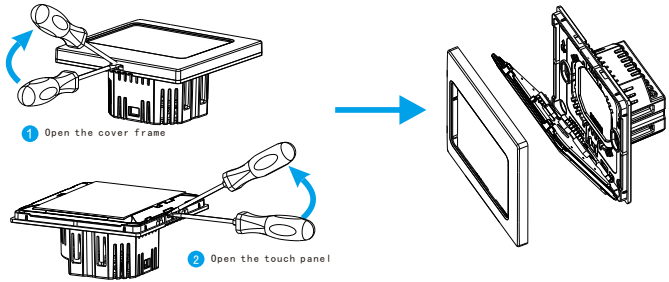
TN-SW Intelligent Touch Panel Switch with Communication Function

PRODUCT INSTALLATION

1 Turn off main power supply of the circuit.

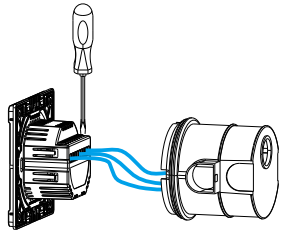


2 Open the cover plate of touch panel from switchgear driving box with screwdriver.

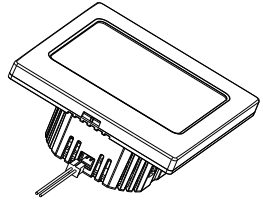


PRODUCT INSTALLATION

3 Draw out strong electrical cable from wall box and trim them up, press tightly on terminal block as illustration



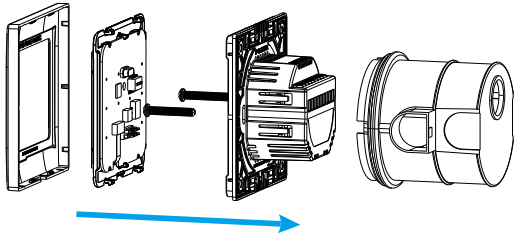
4 Connect the AB communication cables



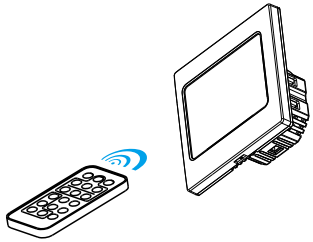
TN-SW Intelligent Touch Panel Switch with Communication Function

PRODUCT INSTALLATION

5 Mount the switch driving section into wall box with 2 screws and fix the touch panel and the cover frame

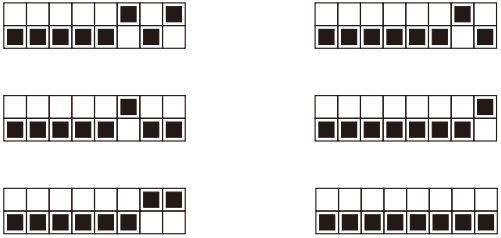


6 Make setting as you like.



PRODUCT ID SETTING

User must set the ID for each touch panels before they are connected in a BUS group. The jumper at the touch panel are for setting the ID. Each of the touch panels in a BUS group must have a unique ID, not must NOT be the ID below. (NOTICE: Normally the ID for all the touch panels are set differently before delivery. User doesn't have to change it by himself.)



TN-SW Intelligent Touch Panel Switch with Communication Function

PRODUCT TYPE SETTING

ON/OFF Switch

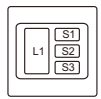
Touch Panel	Step 1	Step 2	Step 3	Step 4
TN-SWL1	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
TN-SWL2	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
TN-SWL3	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
TN-SWL4	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

PRODUCT TYPE SETTING

	Touch Panel	Step 1	Step 2	Step 3	Step 4
ON/OFF Switch	TN-SWH1	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWH2	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
Switch with Master Key	TN-SWM	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWL1-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

TN-SW Intelligent Touch Panel Switch with Communication Function

PRODUCT TYPE SETTING

	Touch Panel	Step 1	Step 2	Step 3	Step 4
Switch with Master Key	TN-SWL2-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWL3-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWL4-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
Switch with Scene Key	 TN-SWL1S3	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

PRODUCT TYPE SETTING

	Touch Panel	Step 1	Step 2	Step 3	Step 4
Switch with Scene Key	TN-SWL2S3	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWL3S3	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWL4S2	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
Switch witch All Scene Key	TN-SWS1	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

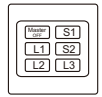
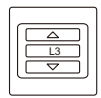
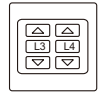
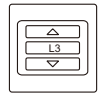
PRODUCT TYPE SETTING

	Touch Panel	Step 1	Step 2	Step 3	Step 4
Switch witch All Scene Key	TN-SWS2	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWS3	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWS4	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWS5	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

PRODUCT TYPE SETTING

	Touch Panel	Step 1	Step 2	Step 3	Step 4
Switch with All Scene Key	TN-SWS6	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
Switch with Master Key & Scene	TN-SWS3-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWL1S3-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWL2S3-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

PRODUCT TYPE SETTING

	Touch Panel	Step 1	Step 2	Step 3	Step 4
Switch with Master Key & Scene	 TN-SWL3S2-M	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
Dimmer & Curtain Switch	 TN-SWD1	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	 TN-SWD2	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	 TN-SWDH1	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

PRODUCT TYPE SETTING

	Touch Panel	Step 1	Step 2	Step 3	Step 4
Curtain Control	TN-SWC1	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller
	TN-SWC2	Touch the key as shown on the picture	Push the 'SET' button on the remote controller	Push the buttons on the remote controller according to the order in the picture	Push again the 'SET' button on the remote controller

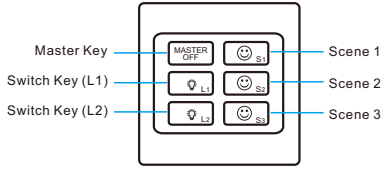
Notice: User can push the 'OFF' button on the remote controller to quit the setting at any step.

PRODUCT FUNCTION & OPERATION

Light Switch

Switch Key function: Touch on the switch key to turn ON/OFF the device.
Master Key function: Touch on the master key to control the Master ON/OFF scene.
Master Key turning off delay function: When the corresponding device is on, keep touching on the master key for 3 seconds, the LED back light of it will sparkle, giving the user enough time to leave the room or go to bed.
Scene Key function: Touch on the scene key to activate the scene.

See as below:

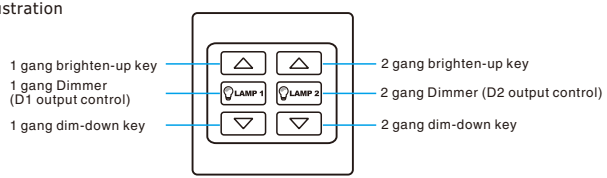


PRODUCT FUNCTION & OPERATION

Dimmer touch panel

Directly touch the panel to achieve brightness regulation. The corresponding LED backlight on the touch panel will clearly indicate the on/off status of lamps.

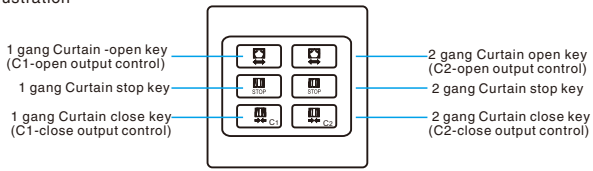
Illustration



Curtain control touch panel

Open/close function: Directly touch the panel to open, close or stop curtain. The corresponding LED backlight on the touch panel will clearly indicate the status of curtains.
Time-lapse stop function: The curtain will stop automatically with 1 minute time-lapse under opening status or closing status.

Illustration



Explanation: L Lamp Control; D Dimmer Control; C Curtain Control; M Master Control.
Notice: Key L, D, C can be set to work correspondingly in a BUS group.

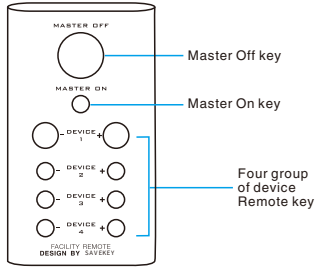
TN-SW Intelligent Touch Panel Switch with Communication Function

PRODUCT FUNCTION & OPERATION

FACILITY-remote

Master on function: press MASTER ON key to achieve all “on” function of the touch panel. It is inapplicable for curtain controller.
Master off function: press MASTER OFF key to achieve all “off” function of the touch panel. Curtain control touch panel will stop the curtain's operation.
Corresponding keys control function: Four groups of device remote keys (Device 1, Device 2, Device 3, and Device 4.) can be corresponding to the keys of touch panel after being set. There is the same function you press the keys on remote or the keys on touch panel.

Illustration of SK-FACILITY-Remote



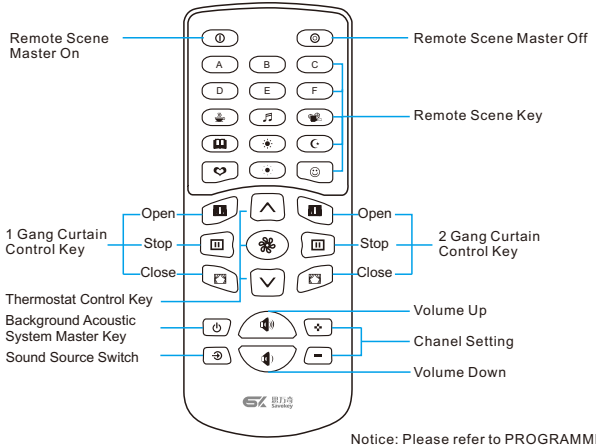
Dimming control: Regulate the brightness through "+","-" key. "+" is to bright up; "-"is to dim down. The darkest is off.
Turn on/off control: Control device on/ off through"+","-"key."+"is to turn on; "-"key is to turn off.
Curtain control: Control curtain motor through "+","-" key. "+"key is to open curtain, "-"key is to close the curtain. During the Process of motor operation, both "+" and "-" key are stop key.

REMOTE CONTROL FUNCTION & OPERATION

Scene Remote Controller——Handy-remote

The scene remote controller can control curtain, central air conditioning and background acoustic system; and it can be set remote scene for a BUS group system.

See as below: SK-Handy-Remote



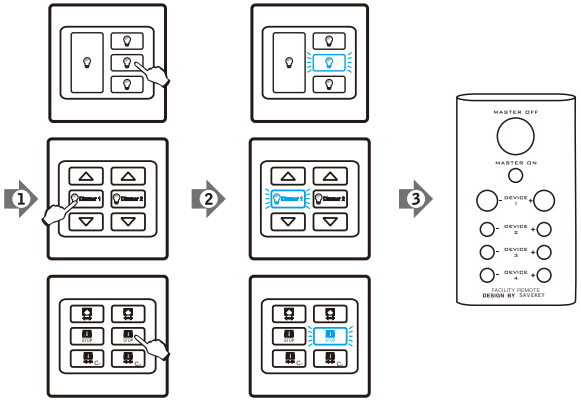
Notice: Please refer to PROGRAMME SETTING to learn the using and setting of this remote controller.

PROGRAMME SETTING

FACILITY-remote controller setting

The FACILITY-remote controller can control each of the lighting devices independently, the way of setting is as below:

Illustration



Select a lighting key (dimmer key or curtain stop key) on touch panel, keep touching on t orf econds.

Back iglit pasrkle

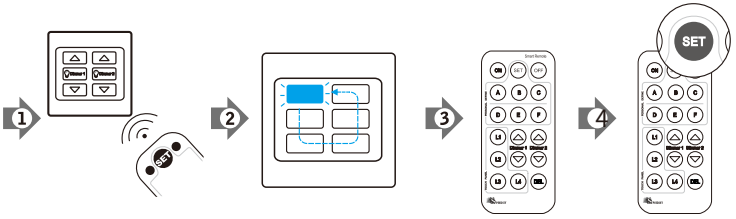
Select a group of device control key on remote controller, press '+' to set the corresponding key, press '-' to delete the corresponding key setting econd.

PROGRAMME SETTING

Dimmer Power-Up Illumination Setting

Set the illumination for the dimmer in a BUS group once the BUS group is powering up.

Illustration



Select a dimmer touch panel, press the 'SET' button on Miniset remote controller.

Touch panels sparkle

Press on the dimmer setting key on Miniset to set a specific illumination of the dimmer.

Press on the 'SET' key on Miniset to finish the setting.

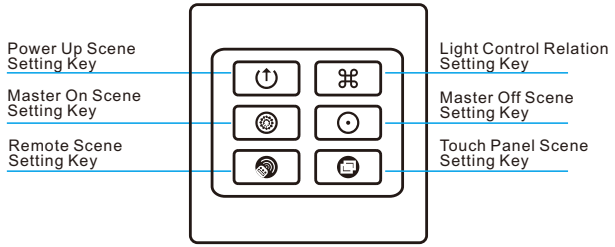
TN-SW Intelligent Touch Panel Switch with Communication Function

PROGRAMME SETTING

Function Setting Key (Hidden) Instruction

When press 'SET' key on Miniset remote controller, the 6 hidden keys will be activated, you can set the functions on the panel by the corresponding keys.

Illustration


Power Up Scene Setting Key
Master On Scene Setting Key
Remote Scene Setting Key
Light Control Relation Setting Key
Master Off Scene Setting Key
Touch Panel Scene Setting Key

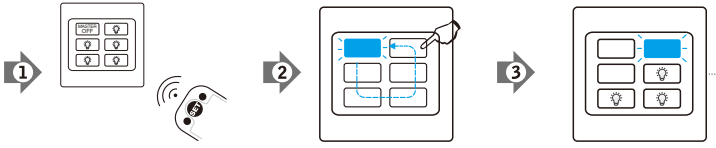
TN-SW Intelligent Touch Panel Switch with Communication Function

PROGRAMME SETTING

⌘ Light Control Key Relation Setting and Delete

- Light Control Key Relation Setting—Light control keys from the same or different panels work together to control the same device.
- All the panels with light control key in the same BUS group can be used to set relation with other light control keys from other panels.

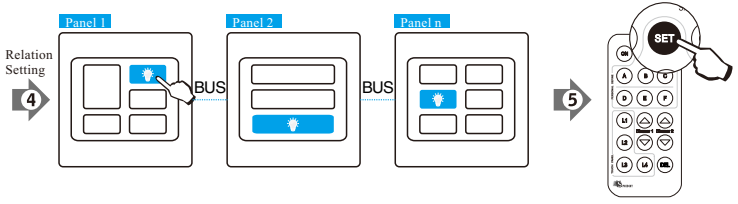
Setting process as below:



Choose any touch panel, push SET button on Miniset controller

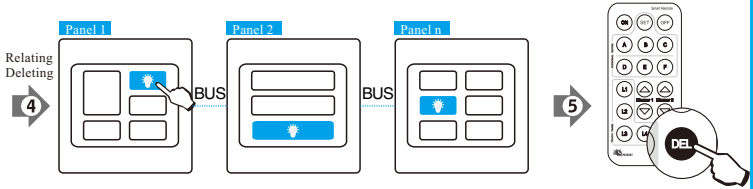
Touch on the Upper-Right key (Relation setting key)

All the Relation Setting Keys in the BUS group keep flashing



Touch on the light control keys you need to set for relating.
(Once a key is chosen, bright back light is on)

Choose any touch panel, push SET button on Miniset controller to finish setting.



Activate a set of light control relation

Choose any touch panel, push DEL button on Miniset controller to delete the set of relation.

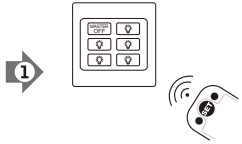
TN-SW Intelligent Touch Panel Switch with Communication Function

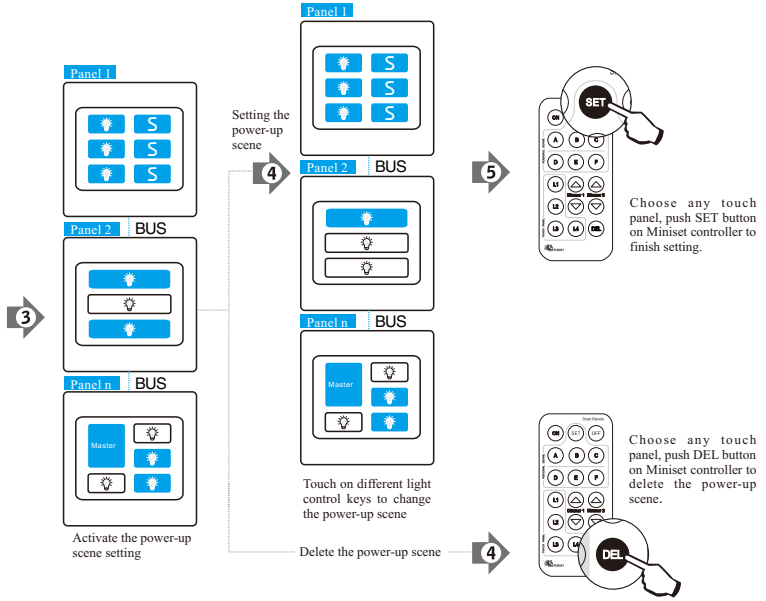
PROGRAMME SETTING

Power-Up Scene Setting and Delete

- Power-Up Scene—Work situation when the panel is electrified from power cut.
- Any panel from a BUS group can be used to set power-up scene for all panels in the same BUS group.
- Keys with flashing light are pending for choosing, keys with bright back light are already chosen for turning on in the scene, while keys with dark back light are chosen to be turned off in the scene.

Setting process as below:





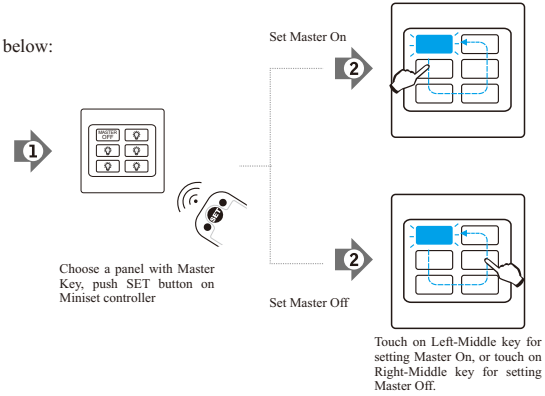
TN-SW Intelligent Touch Panel Switch with Communication Function

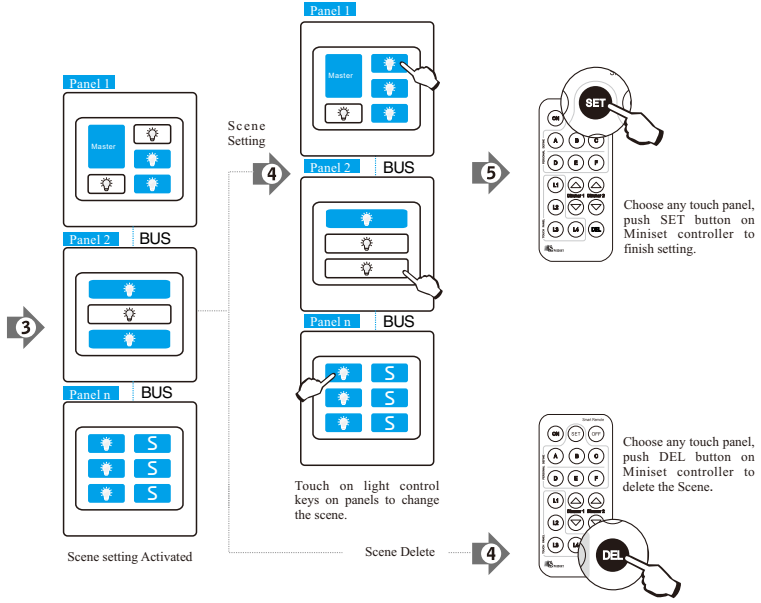
PROGRAMME SETTING

Master On/Off scene setting and delete

- Master On—Touch on the Master Key (back light turn from dark to bright), activate a scene of master on.
- Master Off—Touch on the Master Key (back light turn from bright to dark), activate a scene of master off.
- Only the touch panel with Master Key can be used to set Master On/Off scene.
- Keys with flashing light are pending for choosing, keys with bright back light are already chosen for turning on in the scene, while keys with dark back light are chosen to be turned off in the scene.

Setting process as below:


1
Choose a panel with Master Key, push SET button on Miniset controller
Set Master On
2
Touch on Left-Middle key for setting Master On, or touch on Right-Middle key for setting Master Off.
Set Master Off
2



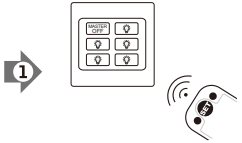
TN-SW Intelligent Touch Panel Switch with Communication Function

PROGRAMME SETTING

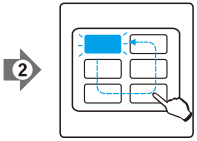
Touch Key Scene Setting and Delete

- Touch Key Scene—the scene to be activated by touching on Scene Key on the touch panel.
- Only the touch panel with Scene Key can be used to set Touch Key Scene in the BUS group.
- In the process of Key Scene setting, keys with flashing light are pending for choosing; keys with bright back light are already chosen for turning on in the scene, while keys with dark back light are chosen to be turned off in the scene.

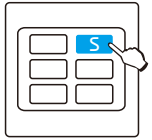
Setting process as below:



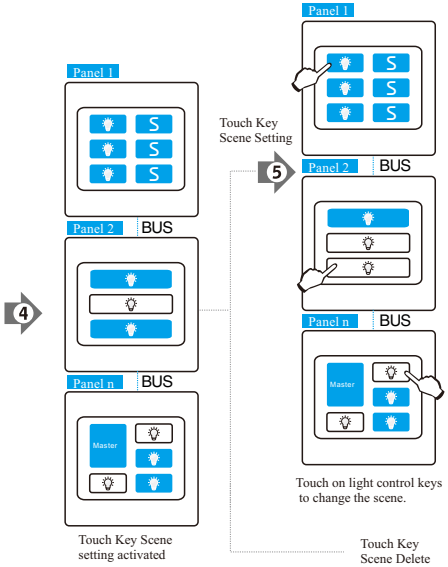
Choose a panel with Scene Key, push SET button on Miniset controller



Touch on the bottom right key on the touch panel



Touch on any Scene Key on the chosen panel first, then user can continue to touch on any Scene Key in the BUS group to set the same scene for all the Scene Key chosen.


Panel 1
Panel 2
BUS
Panel n
Master
Touch Key Scene setting activated
Touch Key Scene Setting
Touch on light control keys to change the scene.
Touch Key Scene Delete
SET
Choose any touch panel, push SET button on Miniset controller to finish setting.
DEL
Choose any touch panel, push DEL button on Miniset controller to Touch key Scene.

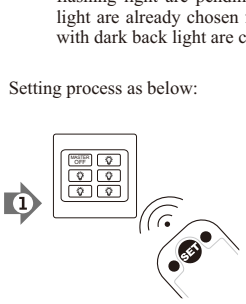
TN-SW Intelligent Touch Panel Switch with Communication Function

PROGRAMME SETTING

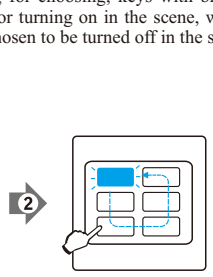
Remote Control Scene Setting and Delete

- Remote Control Scene—The scene to be activated by remote controller.
- All the panel in the BUS group can be used to start setting the remote control scene.
- In the process of Remote Control Scene setting, keys with flashing light are pending for choosing; keys with bright back light are already chosen for turning on in the scene, while keys with dark back light are chosen to be turned off in the scene.

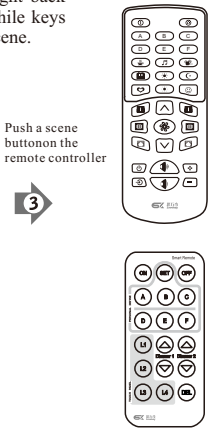
Setting process as below:

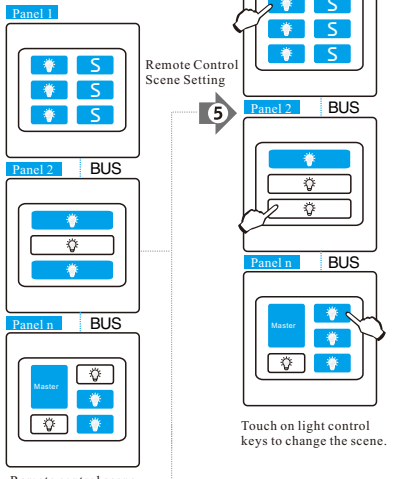


Choose any panel, push SET button on Miniset controller



Touch on the bottom left key on the touch panel

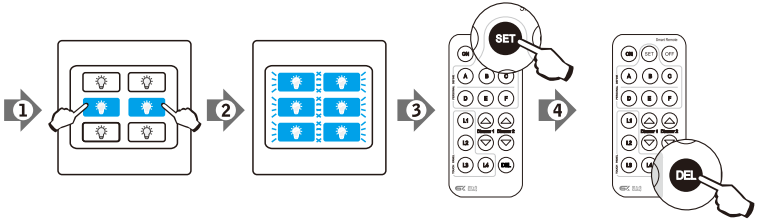




PROGRAMME SETTING

Touch Panel All Setting Delete

- Delete all setting on touch panel, including scene setting, corresponding setting, dimmer power up luminance and remote setting.



Keep touching on the middle 2 keys for 3 seconds.

Touch panel back light sparkle.

Push 'SET' on Miniset remote controller, the back light on touch panel sparkle turn around.

Push 'DEL' on Miniset remote controller to delete all the setting.

TN-SW Intelligent Touch Panel Switch with Communication Function

PRODUCT SPECIFICATIONS

Memory Capacity	30 scenes、10 master off scenes、30corresponding groups
Current loading	Refer to page 34~41
Operate temperature	-10℃+50℃
Operate humidity	0%~95%
rating voltage	85~245VAC
rating frequency	50Hz/60Hz
fixed screw hole distance	60.3mm(fit for BS4662 wall box)
Dimension	86mmX86mmX46mm

TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
Switch	TN-SWL1	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power	100--240V 50/60Hz 4A X 1 gang	1. Touch-type on/off control function; 2. LED backlight keys indicate the status of equipment 3. Perform scene driving instruction(Refer to Programming Procedures setting) 4. Keys in a BUS group can be controlled and work correspondingly.(Programme Setting)
	TN-SWL2		100--240V 50/60Hz 4A X 2 gang	
	TN-SWL3		100--240V 50/60Hz 4A X 3 gang	
	TN-SWL4		100--240V 50/60Hz 4A X 4 gang	

TN-SW Intelligent Touch Panel Switch with Communication Function

TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
Switch	TN-SWH1	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power	100--240V 50/60Hz 4A X 3 gang	1. Touch-type on/off control function; 2. LED backlight keys indicate the status of equipment 3. Perform scene driving instruction(Refer to Programming Procedures setting) 4. Keys in a BUS group can be controlled and work correspondingly.(Programme Setting)
	TN-SWH2		100--240V 50/60Hz 4A X 4 gang	
Switch with Master key	TN-SW0M	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power	100--240V 50/60Hz 10A X 1 gang	Having Master Off scene, user can turn off the device at once but leaving some other device turned on.
	TN-SWL1-M		100--240V 50/60Hz 10A X 2 gang	

TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
Switch with Master key	TN-SWL2-M	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power	100--240V 50/60Hz 4A X 2 gang	The Master key can work on Master On and Off scene, all lighting key on touch panels in the BUS group can join Master On/Off scene.
	TN-SWL3-M		100--240V 50/60Hz 4A X 3 gang	
	TN-SWL4-M		100--240V 50/60Hz 4A X 4 gang	
Scene Switch	TN-SWL1S3	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power	100--240V 50/60Hz 4A X 1 gang	The Scene Key is to turn on/off the scene set by user, all lighting key on touch panels in the BUS group can join scenes.

TN-SW Intelligent Touch Panel Switch with Communication Function

TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
Scene Switch	TN-SWL2S3	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power	100--240V 50/60Hz 4A X 2 gang	The Scene Key is to turn on/off the scene set by user, all lighting key on touch panels in the BUS group can join scenes.
	TN-SWL3S3		100--240V 50/60Hz 4A X 3 gang	
	TN-SWL4S2		100--240V 50/60Hz 4A X 4 gang	
All Scene	TN-SWS1	Connect with no device		The Scene Key is to turn on/off the scene set by user, all lighting key on touch panels in the BUS group can join scenes.

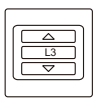
TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
All Scene	TN-SWS2	Connect with no device		The Scene Key is to turn on/off the scene set by user, all lighting key on touch panels in the BUS group can join scenes.
	TN-SWS3			
	TN-SWS4			
	TN-SWS5			

TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
All Scene	TN-SWS6	Connect with no device		The Scene Key is to turn on/off the scene set by user, all lighting key on touch panels in the BUS group can join scenes.
Switch with Master & Scene Key	TN-SWS3-M	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power		Switch with Master & Scene Key Function
	TN-SWL1S3-M		100--240V 50/60Hz 4A X1 gang	
	TN-SWL2S3-M		100--240V 50/60Hz 4A X2 gang	

▪TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
Switch with Master & Scene Key	TN-SWL3S2-M	Incandescent lamp, fluorescent lamp, 12V spotlight with transformer, 220V spotlight, Energy saving lamp and other electronic equipment requiring power	100--240V 50/60Hz 4A X3 gang	Switch with Master & Scene Key
Dimming Touch Panel	TN-SWD1	Incandescent lamp	100--240V 50/60Hz 200W X1 gang	The Scene Key is to turn on/off the scene set by user, all lighting key on touch panels in the BUS group can join scenes.
	TN-SWD2		100--240V 50/60Hz 200W X2 gang	
	 TN-SWDH1		100--240V 50/60Hz 400W X1 gang	

▪TN-SW PRODUCT DESCRIPTION

	Touch Panel	Load Type	Output	Function Description
Curtain Controller	TN-SWC1	forward and reverse rotation of AC motor	100--240V 50/60Hz 4A X1 gang	1.Opening and closing the curtain via controlling forward and reverse rotation of the motor installed on the curtain track 2.Changing scene while scene control or master scene signal received
	TN-SWC2		100--240V 50/60Hz 4A X2 gang	

TROUBLE SHOOTING GUIDE

Symptom	Possible Cause	Solution
Backlight of touch panel does not illuminate	1. Wires are incorrect connected or not properly secured.	Make sure that the input and output wire is well connected with the terminals, and the wiring is correct.
	2. Master switch or leakage protection switch is disconnected.	Connect the master switch and leakage protection switch. If tripping still occurs, please check whether there is electrical leakage on the equipment or whether the neutral line of output phase is correct.
	3. Neutral line is not connected to the equipment.	Connect the neutral line with correct terminal.
The controlled equipment or lamps turn off automatically.	1. The voltage is not stable, and the power interference is strong.	Stop to use the equipment of big interference and ask local technicians to check.
	2. Wiring is incorrect	Secure the connection and ensure correct wiring.
	3. The equipment or lamps are turned off by the remote.	Confirm the control setting of remote and the lamp control mode.
	4. Controlled by scene key or corresponding key on other touch panels.	Confirm the setting of scene key and corresponding key is correct.
Lamps can not be turned off.	1.Load current exceeds the rated operating current of the product.	Reduce the load power, and then turn on the power. If the lamps still can not work normally, please change the driving part of the product.
Touch panel flashes continuously.	1. Touch panel is damaged.	Replace the touch panel.
	2. Touch panel is in the setting mode.	Exit the setting mode with Remote.

TN-SW Intelligent Touch Panel Switch with Communication Function

TROUBLE SHOOTING GUIDE

Symptom	Possible Cause	Solution
Touch panel cannot control the correspondin lamps.	Incorrect wiring or connected with wrong terminal.	Check whether the lamp wire is connected to the output terminal correctly and correspond to the certain touch panel position.
Unable to start setting programme on touch panel	A and B communication wires are not connected correctly, or short circuit	se an instrument to test if A and B wire are connected correctly or short circuit